Exercise 15

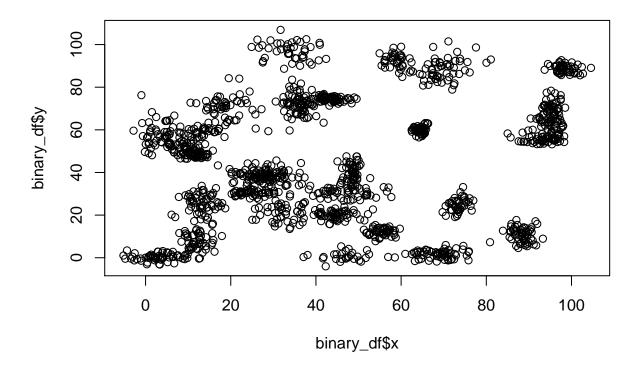
Thip Rattanavilay

2/12/2021

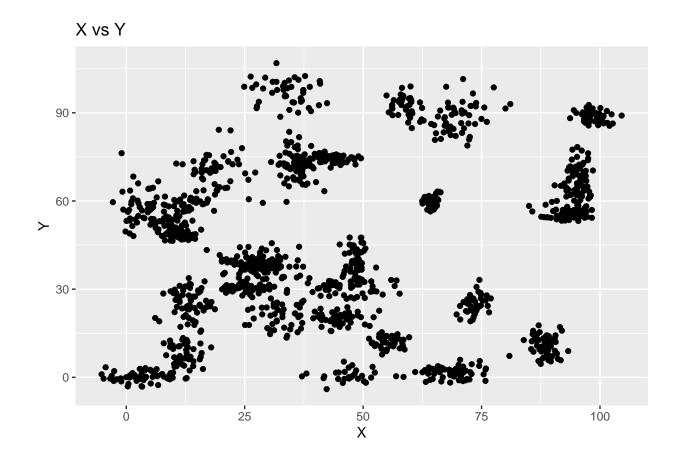
Introduction to Machine Learning

A. Plot the data from each dataset using a scatter plot

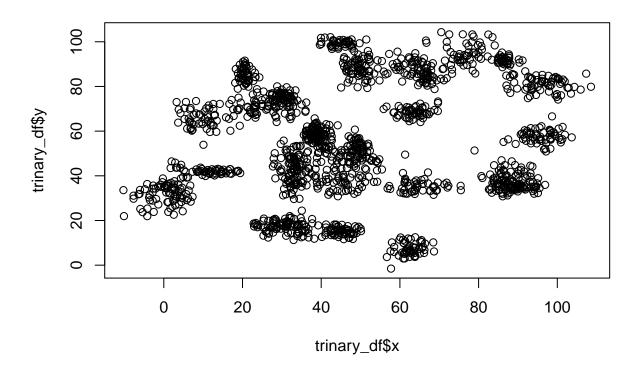
plot(binary_df\$x, binary_df\$y)



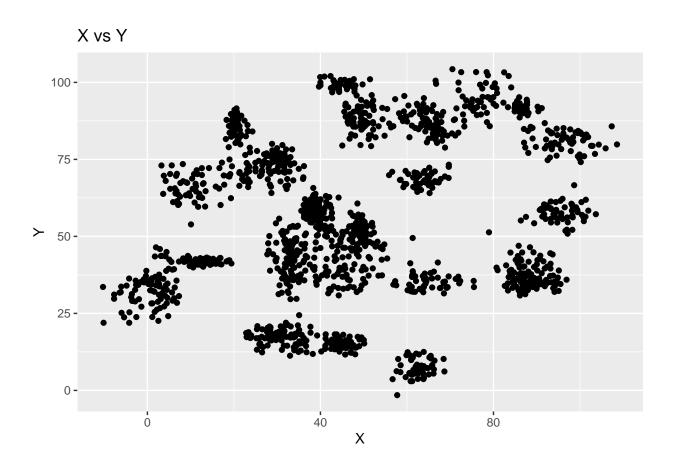
```
ggplot( binary_df, aes(x= x, y= y)) + geom_point( )+
labs(title= "X vs Y", x="X", y="Y")
```



plot(trinary_df\$x, trinary_df\$y)



```
ggplot( trinary_df, aes(x= x, y= y)) + geom_point( )+
labs(title= "X vs Y", x="X", y="Y")
```



B. The k nearest neighbors algorithm categorizes an input value by looking at the labels for the k nearest points and assigning a

category based on the most common label. In this problem, you will determine which points are nearest by calculating the Euclidean

distance between two points. As a refresher, the Euclidean distance between two points:

and

431 0.1919833 0.3101486 ## 1227 0.5585808 0.1586645 ## 358 0.1320439 0.4700906

is

The k nearest neighbors algorithm categorizes an input value by looking at the labels for the k nearest points and assigning a

category based on the most common label. In this problem, you will determine which points are nearest by calculating the Euclidean

distance between two points. As a refresher, the Euclidean distance between two points:

```
normalize <-function(x) { (x - min(x))/(max(x) - min(x))
binary_norm <- as.data.frame(lapply(binary_df[,c(2:3)],normalize))</pre>
head(binary norm)
             Х
## 1 0.6930933 0.7861557
## 2 0.7303243 0.8290011
## 3 0.7194983 0.8675355
## 4 0.6523084 0.7674851
## 5 0.6765989 0.7984207
## 6 0.7054045 0.8150698
data_split <- sample(1:nrow(binary_norm), .8 * nrow(binary_norm))</pre>
train<- binary_norm[data_split,]</pre>
head(train)
##
                х
## 638 0.1402959 0.2361897
```

```
## 306 0.4484554 0.2161808
## 1072 0.6407264 0.5559078
dim(train)
## [1] 1198
               2
test<- binary_norm[-data_split,]</pre>
target category <- binary df [data split, 2]
test_category<- binary_df[-data_split, 2]</pre>
target_category
##
      [1]
           10.200662118
                          15.874706190
                                         56.118415035
                                                         9.294790888
                                                                       44.029259677
##
      [6]
           65.136040967
                          97.903510959
                                         95.527703666
                                                        37.390068231
                                                                       11.218038249
##
     [11]
           96.004871958
                          32.149759785
                                         47.687614181
                                                        71.709356056
                                                                       32.363638857
##
     [16]
           92.985399375
                          40.923401908
                                         70.925135193
                                                        49.002572608
                                                                         6.389315251
##
     [21]
           97.473038843
                          13.616695096
                                          5.787933624
                                                        45.055788024 101.561101688
##
     [26]
           24.807424993
                          15.646961817
                                         10.995035441
                                                        12.175400121
                                                                       47.162205637
##
     [31]
           53.386184291
                          34.816792846
                                         97.588682597
                                                         0.723871963
                                                                       29.518231035
##
     [36]
           38.660504935
                          42.110562278
                                         70.475354921
                                                        33.295475854
                                                                       60.171788654
##
     [41]
           67.527688260
                           7.955788458
                                          4.536617625
                                                        90.901992170
                                                                       46.511304881
##
     [46]
           49.225355242
                          76.582582005
                                         64.049628770
                                                        58.276616472
                                                                       94.554581086
##
     [51]
           23.738698558
                           9.630278514
                                         39.514866433
                                                        24.428917131
                                                                       72.903439485
##
     [56]
           72.702600399
                          31.738680231
                                         87.247501175
                                                        25.335350553
                                                                       73.898948845
##
     [61]
           29.432167427
                           7.038285079
                                         88.936393036
                                                        -1.049711299
                                                                       37.939969972
##
     [66]
            4.049300327
                          93.401927840
                                         29.040979670
                                                        -0.626121742
                                                                       68.410285087
##
     [71]
            1.399888028
                          44.457783977
                                         91.343652157
                                                        72.826593267
                                                                       37.146759535
##
     [76]
                          30.723296648
                                                        46.971861040
           31.555668404
                                         12.614737626
                                                                        4.873908658
##
     [81]
           48.382021745
                          36.864751293
                                         38.814797999
                                                        56.721950146
                                                                       47.447758197
                                                        97.979749801
##
     [86]
           26.635568386
                          66.340775837
                                         12.349013099
                                                                       21.416015490
##
     [91]
                          40.961792439
                                         70.398545156
                                                        41.172960215
                                                                       94.802504564
           26.136127238
##
     [96]
           19.533754999
                          62.542863636
                                         14.501814030
                                                        11.373373376
                                                                       13.661909845
##
    [101]
            3.219510996
                           9.795702140
                                         71.413610465
                                                        51.595518698
                                                                       68.155758405
                                                                       93.254032837
##
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                          98.282925052
                                                        45.062284642
                                         97.558320440
    [111]
           44.333522296
                          56.133214428
                                         47.146643543
                                                        47.896460648
                                                                       93.472693670
    [116]
##
            2.184794635
                          48.725884427
                                         87.070488760
                                                        40.901355806
                                                                       12.111349643
##
    Γ121]
           99.612834536
                          40.565872292
                                         35.895960096
                                                        63.231838105
                                                                       21.180042064
##
    [126]
           71.051919757
                          54.124146695
                                         67.246225819
                                                        20.200275564
                                                                       33.624863178
    [131]
            9.345831490
                          96.697952992
                                         28.699259119
                                                        65.415711826
                                                                       22.411321604
    [136]
##
           34.057638500
                          96.198066843
                                         72.521797778
                                                        11.395345753
                                                                       95.221427140
##
    [141]
                                                        32.073612499
           96.653153990
                           9.388699054
                                         96.954331281
                                                                       33.470462689
##
    [146]
           30.852420755
                          63.387494435
                                         96.900718534
                                                         2.927273247
                                                                       74.617081791
    [151]
##
           43.152317265
                           2.533514308
                                         39.471712826
                                                        73.846898471
                                                                       22.005164071
##
    [156]
           60.008253114
                          46.474867901
                                         15.805117422
                                                        36.834339694
                                                                       50.022143358
                                                        94.429063518
##
    [161]
                                         57.261140889
           11.200686275
                          44.552515990
                                                                       90.447769801
##
    [166]
                                         88.336004682
           42.025137396
                           5.263150408
                                                        25.589061144
                                                                       52.215307328
    [171]
                          28.226936577
##
           90.158365229
                                         63.467484512
                                                         8.221066512
                                                                       35.925834482
##
    [176]
           21.057199244
                           7.817087308
                                                        92.940506451
                                                                       -4.781815410
                                         94.066737667
##
    [181]
            0.744330030
                          56.164020653
                                         49.682167239
                                                         6.748676742
                                                                         1.056347060
    [186]
           90.850068539
                          23.976754780
                                         35.086584057
                                                        51.985373643
                                                                       54.362119242
```

32.518557953

70.496254383

45.961257943

##

[191]

8.329654099

97.276970593

```
[196]
           54.139728136
                          95.084372807
                                         37.858142854
                                                         96.027176688
                                                                       80.875352021
##
    [201]
           46.676195074
                          23.038279883
                                         34.953129776
                                                         68.694956978
                                                                       95.095115743
                                                                         5.068635941
##
    [206]
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                          50.273841315
                                         59.039483779
                                                         47.002127091
    [211]
           64.044533798
                                                         41.953329409
##
                          71.656258542
                                          6.702547834
                                                                        26.586510050
##
    [216]
           88.024357311
                          33.995046958
                                         20.449799908
                                                         69.073994657
                                                                        13.463288969
##
    [221]
           22.668532848
                          47.389712393
                                         66.631764045
                                                         33.974312587
                                                                        57.161282894
##
    [226]
           58.745527581
                          89.021746392
                                         97.154833918
                                                         96.492292607
                                                                        36.223288202
##
    [231]
           53.912753960
                          35.232295568
                                         26.843645666
                                                         36.488001653
                                                                       57.045302229
##
    [236]
           96.078054446
                          95.415812154
                                         45.928742756
                                                         44.338971789
                                                                        48.299248604
##
    [241]
           57.752358783
                          10.779380988
                                         33.918246520
                                                         47.734754226
                                                                        41.162469321
##
    [246]
           13.606944882
                          58.127825458
                                         54.931742509 102.435607932
                                                                        44.267995222
    [251]
##
           23.737671025
                          35.401847086
                                         12.958824363
                                                         65.161240473
                                                                        58.510076261
##
    [256]
           29.526724896
                          64.186350066
                                         96.761371278
                                                         29.264796903
                                                                        53.626288575
                            3.198811727
                                          12.406202099
                                                         41.783336855
##
    [261]
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                                                                        47.328235419
##
    [266]
                                         37.227599814
                                                                        72.376287805
           37.821079829
                          47.404369411
                                                         11.540024012
##
    [271]
            13.179170548
                          96.751142916
                                         56.506374698
                                                         52.465904128
                                                                        39.424699479
##
    [276]
           29.335288765
                          26.363536069
                                           2.263850975
                                                         67.951244261
                                                                        29.666495223
##
    [281]
           -1.991629484
                          88.670222783
                                         31.308812813
                                                         10.498699814
                                                                        49.621587974
    [286]
##
           27.583199044
                          43.718994827
                                         35.873817784
                                                         71.101166845
                                                                        36.881862706
##
    [291]
           35.893405214
                           1.279627592 102.004511873
                                                         12.198067866
                                                                        28.223552077
##
    [296]
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                          86.256250080
                                         68.553538889
                                                         6.532928543
                                                                        14.782075115
    [301]
            -0.802080463 100.721176750
                                                                        13.623003083
##
                                         96.278227927
                                                         74.248124908
    [306]
##
           66.407470498
                          73.342543627
                                         28.902514041
                                                         96.280483868
                                                                        60.266280654
    [311]
##
           67.139472138
                          58.349554211
                                         40.654978139
                                                         31.984965378
                                                                        37.087332990
                                                         58.453284457
##
    [316]
           73.165316376
                          27.434560561
                                         70.796696620
                                                                        41.732913900
    [321]
           44.081930679
                          12.740100053
                                         77.574540432
                                                         88.405829718
                                                                        90.856409687
    [326]
                          25.573250285
                                         49.057638960
##
           12.274009603
                                                         43.482044408
                                                                        43.346588203
##
    [331]
           21.110294310
                          39.800202343
                                         45.199257397
                                                         30.122301011
                                                                        33.253355209
##
    [336]
                          65.172480839
                                         47.699815148
           95.764736592
                                                         52.015871301
                                                                        97.110720647
##
    [341]
           85.773197601
                          64.476025837
                                         56.372204220
                                                         36.728557024
                                                                        35.390845113
##
    [346]
           45.535699455
                          17.244666802
                                         11.210568223
                                                          6.153718860
                                                                        15.935459948
##
    [351]
           28.738840853
                          14.830302801
                                         63.062339881
                                                         14.377386870
                                                                        13.590644494
##
    [356]
           48.155473548
                            5.563065639
                                         35.460576519
                                                         31.757281571
                                                                        91.833358559
                                                         47.477059656
##
    [361]
           46.130589454
                          25.930717929
                                         66.261353495
                                                                        64.371898705
##
    [366]
           59.970595469
                          31.201115292
                                         45.199291962
                                                         -5.200496182
                                                                        89.845419021
##
    [371]
           59.043290929
                           9.229828367
                                         89.154732960
                                                         8.736464357
                                                                        45.653517283
##
    [376]
           71.407892930
                          44.768845483
                                         25.785995880
                                                         63.226239805
                                                                        49.144735580
##
    [381]
                          88.363277829
                                                         40.925696762
                                                                        28.722372021
           31.391073881
                                         11.986458904
    [386]
           55.840000820
                          70.207051313
                                                                        94.225742455
##
                                         63.871532043
                                                         58.084976344
##
    [391]
           87.275323281
                          26.598914424
                                           3.631547198
                                                         41.872817066
                                                                       49.534415851
    [396]
##
           47.796494889
                          73.309710555
                                         89.310653505
                                                         9.975405518
                                                                        22.217195632
    [401]
                                                        97.235812115
##
            3.845265269
                          55.833763327
                                         91.707785822
                                                                       48.401257658
    [406]
##
           37.005947757
                          69.160437175
                                          6.428534072
                                                         49.053408211
                                                                        15.157780125
##
    [411]
           60.146153899
                          15.659788452
                                         59.782748705
                                                         12.398066620
                                                                        24.240472829
##
    [416]
           10.579758528
                            9.234196171
                                         97.177935005
                                                         64.900737195
                                                                       43.004952168
    [421]
##
           96.665029554
                          56.369858047
                                         98.510648728
                                                         98.445018110
                                                                         1.298305237
##
    [426]
            0.708282895
                            9.615365267
                                           8.721650166
                                                         42.093318838 100.751090232
##
    [431]
            13.256908702
                          69.733179363
                                         70.328466371
                                                         32.961538625
                                                                       75.919779906
##
    [436]
           23.863110085
                          49.861183855
                                         48.263287921
                                                          6.652554889
                                                                        93.712458371
##
    [441]
           66.136045101
                          38.981119864
                                         63.544329666
                                                          2.550707139
                                                                        96.622825742
##
    [446]
           30.799802023
                          32.648881030
                                         34.858769685
                                                         34.425154956
                                                                         9.881853629
##
    [451]
            40.059094769
                          47.673405671
                                         96.989491021
                                                         48.205285630
                                                                        12.903526569
##
    [456]
           20.777625589
                          36.178193603
                                          7.993121425
                                                        31.564295973
                                                                       51.957878078
##
    [461]
           29.024162467
                          96.682589102
                                          4.599363143 51.249127278
                                                                       10.554285197
```

```
##
    [466]
           94.582287559
                           14.029737880
                                          88.496091902
                                                         16.217635257
                                                                        24.248186670
##
    [471]
           87.740174000
                           97.099995345
                                          97.416418430
                                                         88.432318129
                                                                        26.162742126
##
    [476]
           94.048842596
                            2.845202010
                                          69.168651230
                                                         44.873221034
                                                                        33.937711176
    [481]
            10.625257337
                                                                        83.908097822
##
                           97.655995133
                                          46.889547079
                                                         30.159514128
##
    [486]
            19.099688339
                           22.663143177
                                          44.114215911
                                                         92.150164086
                                                                        87.631489923
    [491]
                           97.186349072
                                          67.905321976
##
            10.117039441
                                                         73.566736391
                                                                         7.580919833
##
    [496]
            16.940819103
                           11.934858361
                                          97.918467457
                                                         71.194441620
                                                                        34.407744012
##
    [501]
            10.736079917
                           45.883525571
                                           0.808451642
                                                          3.336736626
                                                                        36.164555199
##
    [506]
            41.008953501
                           95.208369458
                                          49.229161435
                                                         23.464836532
                                                                        26.733931793
##
    [511]
           22.414617614
                           11.669984512
                                          91.958670835
                                                         33.435780949
                                                                        86.689653028
##
    [516]
            43.022963352
                           41.298517670
                                          62.023651069
                                                         56.064332228
                                                                        11.007960135
    [521]
##
            14.766091661
                           15.632397858
                                          11.575181183
                                                         44.413558290
                                                                        46.845819671
##
    [526]
            12.981959162
                           28.817182141
                                          68.165837095
                                                         97.669641573
                                                                        65.100641340
                                          31.766420820
                                                          1.247836449
##
    [531]
            51.376641358
                           7.537792702
                                                                        24.505701278
##
    [536]
           89.195835488
                           39.787982976
                                          26.906237142
                                                         64.603657776
                                                                        10.692399388
##
    [541]
            67.473153040
                           68.017091794
                                          76.302803978
                                                         45.031631099
                                                                        28.186544341
##
    [546]
           72.562691600
                           26.819925599
                                          37.331293157
                                                         30.783718646
                                                                         5.109270565
##
    [551]
            32.477421211
                           13.161167081
                                          36.876360479
                                                         25.916409623
                                                                        27.376230207
    [556]
                           27.471322382
                                          88.330108477
##
           96.819698514
                                                         88.093528424
                                                                        -3.381874674
##
    [561]
           37.086799225
                           72.920966451
                                          93.384230094
                                                         88.352280552
                                                                        67.208283103
##
    [566]
            48.743382685
                           41.330070403
                                          23.394391206
                                                         21.341408085
                                                                        51.992988082
##
    [571]
                           92.627746882
                                                         55.941764840
                                                                        44.707617440
            11.288127043
                                          37.087321669
    [576]
                                                                        27.277736119
##
            72.880164929
                           87.497299688
                                          61.999684982
                                                          6.410981008
##
    [581]
            40.739344213
                           59.708038997
                                          86.496747628
                                                         10.599292969
                                                                        11.048931602
##
    [586]
            -2.825958500
                           44.138331275
                                          57.725948753
                                                         40.761325975
                                                                        12.527526373
##
    [591]
           48.519278490
                           10.395807743
                                           0.056642086
                                                         28.574134171
                                                                        60.383547370
    [596]
           48.914742015
                           47.492681412
                                                         97.380941079
##
                                          92.891406651
                                                                        64.903447104
##
    [601]
           71.567593513
                           -3.072394086
                                          33.963129456
                                                         17.472225991
                                                                        25.079298047
##
    [606]
            25.860523842
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binary3</pre>
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##
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## [109,] 0.026012969 0.029084871 0.029614369 0.030391994
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## [270,] 0.015397606 0.016352845 0.016453179 0.017848042
## [271,] 0.012602990 0.012633076 0.013718261 0.014037890
```

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## [272,] 0.030533906 0.039301420 0.041881207 0.043799275
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## [277,] 0.031952441 0.034108295 0.034203691 0.034497013
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## [299,] 0.066790894 0.067500123 0.069111043 0.069921874
## [300,] 0.084217131 0.087718857 0.089311462 0.091887402
## 209 Levels: -0.0014944306396889 -0.626121741531422 ... 98.7429629551913
binary20<- knn(train, test,cl=target_category, k=20)
binary20
```

```
##
     [1] 68.6014493834819
                              67.9053219762667
                                                   67.2082831025027
##
     [4] 67.1394721380322
                              65.7799426366212
                                                   67.5418511219557
##
     [7] 64.3718987048263
                              45.8835255714033
                                                   45.8835255714033
    [10] 46.4054497290645
                              45.0557880243366
                                                   45.0557880243366
##
    [13] 39.4246994789974
                              41.9533294088145
                                                   41.6361320459424
##
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                              39.4246994789974
                                                   42.4761666858862
##
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                              41.7833368550991
                                                   43.7189948267244
##
    [22] 43.0049521681032
                              38.6303670827825
                                                   42.0583282978465
##
    [25] 39.4246994789974
                              90.4249756131192
                                                   90.4249756131192
##
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##
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                                                   90.4249756131192
##
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                                                   8.94232854322852
##
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                                                   5.82551399021638
##
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                                                   11.754786803879
##
    [43] 56.0987717648814
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                                                   42.0251373958012
    [46] 44.9198657378566
##
                              43.0229633519505
                                                   31.738680231249
##
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                              41.1791661046975
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##
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    [55] 5.26315040819022
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##
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                                                   6.15371885983455
```

```
##
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                              9.63027851413816
                                                   7.58091983282684
##
    [64] 6.79867538435577
                              86.6896530283807
                                                   86.6896530283807
##
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                              83.9080978224609
                                                   87.0089718846946
##
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                              87.0089718846946
                                                   86.6896530283807
##
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##
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                                                   22.0782249867995
                              22.4146176141488
##
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                              20.2182759361716
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##
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##	[190,]	766	1032	644	336	1172	1169	489
##	[190,]	644	466	95	199	164		
	_ `_						192 115	669
##	[192,]	16	1134	110	1188	626 572		370
##	[193,]	1131	16	1134	1198	572	699	1188
##	[194,]	1032	1131	699	598	16	1134	1065
##	[195,]	1119	95	325	699	186	237	644
##	[196,]	400	1039	547	510	277	849	362
##	[197,]	883	849	1130	1114	886	580	487
##	[198,]	129	952	511	456	26	742	106
##	[199,]	459	296	256	172	317	1028	277
##	[200,]	35	334	1150	549	1030	510	636
##	[201,]	256	1028	767	1109	259	308	351
##	[202,]	931	872	600	48	695	979	762
##	[203,]	257	998	211	934	48	876	643
##	[204,]	419	929	48	872	337	1040	695
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##	[206,]	705	97	1078	337	931	600	872
##	[207,]	1040	48	825	6	695	929	257
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##	[222,]	1097	60	543	1068	718	615	871
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##	[41,]	818	300	663	1173	486	756	862	714	780	1178	96	899
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##	[43,]	247	953	112	613	411	973	241	1124	838	578	312	366
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##	[46,]	464	1090	854	209	920	870	964	31	725	911	544	377
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##	[110,]	480	1103	840	133	206	461	406	1179	903	648	861	915
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##	[116,]	1014	747	554	1135	86	1114	835	461	434	957	533	57
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##	[118,]	587	639	1082	908	480	785	72	830	206	506	1004	784
##	[119,]	1067	331	410	803	813	467	552	795	90	2	571	770
##	[120,]	161	417	177	354	383	1102	399	142	676	100	817	246
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##	[122,]	672	571	803	161	410	540	817	1155	552	770	592	467
##	[123,]	540	263	98	1071	813	672	1171	410	305	431	1	2
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##	[145,]	912	971	121	473	25	404	988	228	1027	599	733	961
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## [111,] 0.04809251 0.04860427
## [112,] 0.06574263 0.06589887
## [113,] 0.05231681 0.05267462
## [114,] 0.06281656 0.06460463
## [115,] 0.05537190 0.05643924
## [116,] 0.06037001 0.06069931
## [117,] 0.06486093 0.06553923
## [118,] 0.05361206 0.05398987
## [119,] 0.05994987 0.06069461
## [120,] 0.08826337 0.08855793
## [121,] 0.04580519 0.04817904
## [122,] 0.04884721 0.04962327
## [123,] 0.04929803 0.05229497
## [124,] 0.04624818 0.04762523
## [125,] 0.07586989 0.07587590
## [126,] 0.06911429 0.06971200
## [127,] 0.04703104 0.04856568
## [128,] 0.04526995 0.04527412
## [129,] 0.04285825 0.04467579
## [130,] 0.05915761 0.05924832
## [131,] 0.05923079 0.05930734
## [132,] 0.08543514 0.08550981
## [133,] 0.06562823 0.06616751
## [134,] 0.06455434 0.06580483
## [135,] 0.06650100 0.06916826
## [136,] 0.06930335 0.07017111
## [137,] 0.05179690 0.05310124
## [138,] 0.08360591 0.08436153
## [139,] 0.06544643 0.06573887
```

```
## [140,] 0.03634525 0.03643548
## [141,] 0.05122838 0.05326816
## [142,] 0.02430168 0.02470581
## [143,] 0.04020942 0.04395228
## [144,] 0.02569881 0.02615078
## [145,] 0.02538196 0.02568499
## [146,] 0.02529873 0.02572416
## [147,] 0.05029893 0.05314939
## [148,] 0.03363524 0.03406043
## [149,] 0.02843538 0.02862055
## [150,] 0.02668201 0.02878426
## [151,] 0.02384430 0.02472849
## [152,] 0.06362636 0.06469412
## [153,] 0.05371917 0.05497074
## [154,] 0.06568000 0.06656934
## [155,] 0.06662784 0.07043560
## [156,] 0.07762676 0.07875766
## [157,] 0.07535874 0.07594208
## [158,] 0.06596972 0.07091900
## [159,] 0.06683735 0.06988811
## [160,] 0.06384355 0.06425280
## [161,] 0.05525967 0.05630200
## [162,] 0.06534763 0.06597778
## [163,] 0.07834683 0.07890894
## [164,] 0.05722818 0.05917268
## [165,] 0.05141334 0.05249862
## [166,] 0.05624471 0.05675609
## [167,] 0.04078278 0.04161679
## [168,] 0.05156969 0.05356186
## [169,] 0.03747358 0.03863939
## [170,] 0.05473379 0.05762653
## [171,] 0.03914992 0.04000917
## [172,] 0.04732098 0.04855955
## [173,] 0.05983502 0.06165473
## [174,] 0.03747018 0.03785902
## [175,] 0.01993627 0.02070805
## [176,] 0.02071249 0.02145543
## [177,] 0.02814143 0.02843556
## [178,] 0.02569940 0.02758525
## [179,] 0.03227779 0.03314131
## [180,] 0.03077567 0.03106546
## [181,] 0.02479359 0.02574213
## [182,] 0.02370436 0.02441806
## [183,] 0.02563261 0.02660758
## [184,] 0.01989442 0.02004675
## [185,] 0.02280754 0.02377720
## [186,] 0.03132466 0.03165694
## [187,] 0.02624876 0.02724669
## [188,] 0.02747131 0.02919380
## [189,] 0.04638159 0.04889998
## [190,] 0.02124529 0.02172221
## [191,] 0.03119061 0.03185056
## [192,] 0.05567173 0.05713031
## [193,] 0.07601514 0.07684185
```

```
## [194,] 0.08254502 0.08487009
## [195,] 0.02503579 0.02508057
## [196,] 0.02819011 0.02883628
## [197,] 0.03293123 0.03375253
## [198,] 0.04664509 0.04677155
## [199,] 0.02924398 0.02983592
## [200,] 0.02847714 0.02938997
## [201,] 0.03274792 0.03299277
## [202,] 0.01625081 0.01834871
## [203,] 0.02219059 0.02239940
## [204,] 0.02244096 0.02273551
## [205,] 0.01555953 0.01649280
## [206,] 0.02469287 0.02513745
## [207,] 0.01803756 0.01863882
## [208,] 0.01637967 0.01699140
## [209,] 0.02146245 0.02151074
## [210,] 0.01704358 0.01709592
## [211,] 0.01863160 0.01877545
## [212,] 0.01763693 0.01814458
## [213,] 0.01489786 0.01522233
## [214,] 0.02028481 0.02082783
## [215,] 0.01512407 0.01623003
## [216,] 0.02679469 0.02699524
## [217,] 0.01663835 0.01676654
## [218,] 0.03896396 0.04094800
## [219,] 0.07545257 0.07598768
## [220,] 0.04906148 0.05101976
## [221,] 0.04024639 0.04095213
## [222,] 0.03188707 0.03402257
## [223,] 0.03433506 0.03476719
## [224,] 0.03373090 0.03511374
## [225,] 0.13902067 0.13972019
## [226,] 0.09693258 0.10362164
## [227,] 0.11498032 0.11666474
## [228,] 0.12133968 0.12203202
## [229,] 0.16692529 0.16762956
## [230,] 0.11487408 0.11524631
## [231,] 0.12875840 0.12948686
## [232,] 0.11542238 0.11560729
## [233,] 0.13937719 0.13989079
## [234,] 0.10479314 0.10656906
## [235,] 0.05571910 0.05642937
## [236,] 0.03104198 0.03298916
## [237,] 0.05098044 0.05224027
## [238,] 0.03091076 0.03110200
## [239,] 0.06788708 0.06801474
## [240,] 0.05758074 0.06089363
## [241,] 0.03774707 0.03779104
## [242,] 0.06474630 0.06555884
## [243,] 0.04457540 0.04618040
## [244,] 0.07762735 0.07803608
## [245,] 0.02800704 0.03006793
## [246,] 0.05615417 0.05740754
## [247,] 0.04261589 0.04295071
```

```
## [248,] 0.03888385 0.03890975
## [249,] 0.03853891 0.03891161
## [250,] 0.02312223 0.02327276
## [251,] 0.02886251 0.02981162
## [252,] 0.03571871 0.03577283
## [253,] 0.03277945 0.03312455
## [254,] 0.03048299 0.03054817
## [255,] 0.04412224 0.04459645
## [256,] 0.02440314 0.02503184
## [257,] 0.03057249 0.03068432
## [258,] 0.04401838 0.04503196
## [259,] 0.05634019 0.05742420
## [260,] 0.02394262 0.02524784
## [261,] 0.08139125 0.08482315
## [262,] 0.01559766 0.01586598
## [263,] 0.02463960 0.02583820
## [264,] 0.01424695 0.01526084
## [265,] 0.01927314 0.02059810
## [266,] 0.02254616 0.02370636
## [267,] 0.01326133 0.01341426
## [268,] 0.02895224 0.03006373
## [269,] 0.01947220 0.01973381
## [270,] 0.02369760 0.02373329
## [271,] 0.01771570 0.01830472
## [272,] 0.05129713 0.05198445
## [273,] 0.06020101 0.06050109
## [274,] 0.04601768 0.04700523
## [275,] 0.04194652 0.04211511
## [276,] 0.05219992 0.05225321
## [277,] 0.04815092 0.05016016
## [278,] 0.06040712 0.06271592
## [279,] 0.04458687 0.04720299
## [280,] 0.04891374 0.04987335
## [281,] 0.04019993 0.04122853
## [282,] 0.05312421 0.05432084
## [283,] 0.06992588 0.07043912
## [284,] 0.05368895 0.06050954
## [285,] 0.04224595 0.04321440
## [286,] 0.06843752 0.07051099
## [287,] 0.06851899 0.08238332
## [288,] 0.09043797 0.09279856
## [289,] 0.08087165 0.09025535
## [290,] 0.13751459 0.14551262
## [291,] 0.09817204 0.10071359
## [292,] 0.07316096 0.07766588
## [293,] 0.09121366 0.09493432
## [294,] 0.06654314 0.08244543
## [295,] 0.09846248 0.10031475
## [296,] 0.06897548 0.06947690
## [297,] 0.08933287 0.09267215
## [298,] 0.10540030 0.10610763
## [299,] 0.09788675 0.10180652
## [300,] 0.12637591 0.13533668
## 189 Levels: -0.0014944306396889 -0.626121741531422 ... 97.6559951334489
```

```
tri_norm <- as.data.frame(lapply(trinary_df[,c(2:3)],normalize))</pre>
head(tri norm)
##
            х
## 1 0.3395560 0.3890216
## 2 0.3495902 0.5037685
## 3 0.3735363 0.4801528
## 4 0.3605825 0.4041591
## 5 0.3779910 0.4442837
## 6 0.3708747 0.4326334
data_split <- sample(1:nrow(tri_norm), .8 * nrow(tri_norm))</pre>
train2<- tri_norm[data_split,]</pre>
head(train2)
##
               Х
## 694 0.6347831 0.6687908
## 272 0.7259032 0.9910419
## 1206 0.1498426 0.6087777
## 550 0.8996763 0.5041450
## 1172 0.1337753 0.7048625
## 1313 0.8705181 0.3884197
dim(train2)
## [1] 1254
              2
test2<- tri_norm[-data_split,]</pre>
target_category1<-trinary_df[data_split, 3]</pre>
test_category1<- trinary_df[-data_split, 3]</pre>
target_category1
##
      [1]
          69.240141 103.345391 62.888694 51.814949 73.057769
                                                                 39.567233
##
      [7]
          37.754047 28.773203 57.076384 50.699562 100.010052 86.839072
##
     [13] 76.580891 78.965263 84.941993 38.843626 33.303278 93.010012
##
     [19]
          34.333285 103.322681 43.492759 34.670889 76.663449 42.038313
##
     [25]
          51.037486 35.024639
                                38.031059 36.187598 42.980379 100.505503
                                90.970133 70.856932
##
     [31]
          52.135525 47.806793
                                                      60.168046 13.480576
##
     [37]
          92.178050 26.210823
                                75.290332 41.036618 11.685083 37.374005
##
     [43]
          90.576197 58.842614
                                45.479562 79.876709
                                                      5.462282 56.136017
##
          67.513684 86.776540
                                99.022043 65.447603 55.863006 56.730185
     [49]
##
     [55]
          33.281560 100.784891
                                32.034665 59.126810
                                                      91.544616
                                                                 35.368422
##
          82.106038 65.725983
                                19.362451 47.737517
                                                      37.425069 11.841524
     [61]
##
          71.211779 54.346531
                                22.583180 95.733376 68.568434 86.600655
     [67]
          85.751076 68.317205 55.749800 40.129769
##
     [73]
                                                      39.591798 39.862382
##
     [79]
          87.432597 63.316571
                                87.228523 48.683457
                                                      74.130459 57.455887
##
     [85] 78.584983 57.196438
                                85.184715 95.285834
                                                      57.086686 59.685812
##
     [91]
          47.398074 35.760281
                                85.953887 35.389963 90.623660 90.099488
          41.731617 34.483937 18.010644 62.025516 35.943845 88.606803
##
     [97]
```

```
[103]
           34.277428
                       31.939170
                                   44.779776
                                               85.826048
                                                           57.605783
                                                                       33.405189
##
    [109]
                                   35.093793
           84.181756
                       98.165917
                                               93.686075
                                                           39.630936
                                                                       91.820555
           59.243904
                                   86.674237
                                                                        5.536424
##
    [115]
                       34.129445
                                               32.735558
                                                           41.212990
    [121]
                                   87.515905
           76.478783
                       75.613478
                                               42.666931
                                                           60.154623
##
                                                                       61.890727
##
    [127]
           91.699895
                       54.099144
                                   82.468100
                                               61.145272
                                                           33.885209
                                                                       81.517862
    [133]
           50.618256
                       38.942695
                                   35.078133
                                               56.180690
                                                           83.155997
##
                                                                       34.419501
                       36.651013
                                               33.768818
    Γ1397
           16.865827
                                   17.296961
                                                           38.599055
##
                                                                       93.056185
    [145]
##
           58.666948
                       65.433509
                                   44.834219
                                               38.377223
                                                           98.765822
                                                                       94.169879
##
    [151]
           41.730941
                       49.483799
                                   37.926243
                                               69.457812
                                                           95.211815
                                                                       72.511995
##
    [157]
           50.461705
                       93.412748
                                   41.907037
                                               11.638243
                                                           66.421249
                                                                       50.943574
##
    [163]
           58.863282
                       79.395067
                                   57.498667
                                               11.943523
                                                           81.483220
                                                                       84.633728
                       56.394971
    [169]
           36.634507
                                   18.357001
                                               66.588738
                                                           54.584311
##
                                                                        8.073557
##
    [175]
           71.041922
                       89.383169
                                   77.092025
                                               93.973475
                                                           93.115263
                                                                       37.261262
           68.628246
                                   81.374417
                                                           90.304199
##
    [181]
                       90.081700
                                               29.678732
                                                                       43.562081
##
    [187]
           37.664600
                       27.175934
                                   18.870059
                                               88.747187
                                                           36.120458
                                                                       37.252233
##
    [193]
           17.019368
                       42.131451
                                   38.623562
                                               15.892859
                                                           34.068236
                                                                       10.708888
##
    [199]
           40.156843
                                   48.629811
                                                           83.440684
                       73.085422
                                               36.056447
                                                                       14.638738
##
    [205]
           87.857816
                       42.433121
                                   39.195414
                                               57.109781
                                                           56.228216
                                                                       85.782648
    [211]
           93.058657
                       67.336466
                                   33.571439
                                                           99.826451
##
                                                6.464906
                                                                       71.113154
##
    [217]
           86.625559
                       59.288308
                                   52.710374
                                               59.289454
                                                            8.236265
                                                                       37.133438
                                   32.634289
##
    [223]
           76.908854
                       34.356944
                                               42.006745
                                                           40.987387
                                                                       35.219470
##
    [229]
           67.946658
                       57.642812
                                   59.548766
                                               88.515590
                                                           90.564881
                                                                       -1.540938
    [235]
                       79.404051
                                   87.994402
                                               90.819015
                                                           11.433070
##
           75.031428
                                                                       79.310196
    [241]
           34.292897
                       85.776360
                                   33.687695
                                               60.089625
                                                           56.259080
##
                                                                       95.873880
##
    [247]
           28.268546
                       15.599057
                                   62.070846
                                               70.772026
                                                           41.599298
                                                                       98.629671
##
    [253]
           56.086152
                       24.418715
                                   56.692336
                                               80.447982
                                                           39.501590
                                                                       38.001920
##
    [259]
           98.803851
                       87.127939
                                   73.846521
                                               45.514532
                                                           15.238014
                                                                       33.549667
    [265]
           15.474540
                                   63.806646
                                                           45.097064
##
                       67.453318
                                               53.355366
                                                                       46.293054
##
    [271]
           69.579867 101.042103
                                   34.118775
                                               72.095528
                                                            7.231187
                                                                       37.007752
##
    [277]
           65.984948
                       98.019448
                                   39.889149
                                               64.593469
                                                           61.332109
                                                                       54.263847
##
    [283]
           89.607027
                       57.857701
                                   45.504596
                                               34.115632
                                                           58.778596
                                                                       73.175777
                                               19.763181
##
    [289]
           56.378192
                       12.402610
                                   20.328189
                                                           13.873831
                                                                       86.849833
##
    [295]
           63.112403
                       72.765955
                                   18.477395
                                               19.832853
                                                           74.650684
                                                                       31.248901
    [301]
           76.204269
                       84.722347
                                   42.708249
                                                           56.364568
##
                                               14.955564
                                                                       82.674244
##
    [307]
           61.681106
                       90.255672
                                   76.944471
                                               46.070989
                                                          100.522480
                                                                       73.825419
##
    [313]
           95.408290
                       70.046255
                                   92.372857
                                               54.578228
                                                           85.813042
                                                                       43.656448
##
    [319]
           36.405683
                       59.266664
                                   33.743708
                                               83.151673
                                                           47.761488
                                                                       28.284893
##
    [325]
           29.626945
                       69.422358
                                   44.531736
                                               76.615036
                                                           69.137028
                                                                       33.415388
    [331]
           55.757754
                       77.734497
                                   59.611240
                                               43.088815
                                                           56.184698
                                                                       90.078715
##
           50.237507 101.723810
                                   68.971575
                                               40.071302
                                                           76.366049
##
    [337]
                                                                       48.273396
           69.123150
                       73.185489
    [343]
                                   35.151837
                                               79.649093
                                                           98.260578
##
                                                                       33.460695
    [349]
           79.857229
                       91.924279
                                   82.723480
                                               12.323731
                                                           59.545743
                                                                       29.727720
##
    [355]
                                   17.805354
                                                           41.272049
##
           35.192789
                       58.639688
                                               60.554095
                                                                       57.491155
##
    [361]
           96.933186
                       31.290043
                                   36.824955
                                               33.625991
                                                           56.149028
                                                                       16.474371
    [367]
                                   32.974955
                                                           45.032876
##
           41.823334
                       38.038372
                                               83.536201
                                                                       61.125657
    [373]
                       43.904637
##
           37.264515
                                   13.164055
                                               34.717227
                                                           17.762513
                                                                       72.208611
##
    [379]
           67.684456
                       62.043209
                                   60.199142
                                               33.286800
                                                           78.800946
                                                                       39.998152
    [385]
                                   50.120320
##
           77.692953 100.826438
                                               78.854075
                                                           16.267853
                                                                       56.787413
##
    [391]
           93.529577
                       50.398625
                                   82.851491
                                               42.332122
                                                           42.386119
                                                                       42.250169
##
    [397]
           25.181065
                       83.077418
                                   98.491395
                                               92.006439
                                                           36.402205
                                                                       56.845363
##
    [403]
           85.656344
                                   67.021035
                                               46.881558
                                                           85.816713
                       16.129142
                                                                       63.826626
##
    [409]
           32.255401
                       23.729956
                                   59.700454
                                               71.263991
                                                           59.446026
                                                                       30.254965
##
    [415]
           44.791583
                       15.690899
                                   33.811092
                                               53.212550
                                                           51.775107
                                                                       40.949956
##
    [421]
           42.210368
                         2.998417
                                   52.166378
                                               34.674837
                                                           59.385584
                                                                       62.042286
```

```
[427]
           71.200033
                       88.962876
                                   40.538387
                                               35.942303
                                                           28.442800
                                                                       69.777519
##
    [433]
           14.730488
                       70.380718
                                   87.006535
                                               78.566416
                                                           46.951782
                                                                       53.449028
##
    [439]
           95.586808
                       79.805511
                                   49.499471
                                               70.239647
                                                           81.771769
                                                                       62.201730
    [445]
           13.850407
                       69.054444
                                   71.449788
                                               71.688206
                                                           90.766535
##
                                                                       16.182508
##
    [451]
           61.446397
                       21.113225
                                   70.975611
                                               97.576774 100.563929
                                                                       35.873190
    [457]
           47.361731
                       33.250458
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```
tri3<- knn(train2, test2,cl=target_category1, k=3)
tri3</pre>
```

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##
##
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## 266 Levels: 100.010051949193 11.6382431695813 ... 99.975232206677
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##
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##
     [5] 44.7915826139299 45.479561540635 49.0568067996152 47.3617314214868
##
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                                                            35.7246706673687
##
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    [17] 35.7034432877825 34.7535710468385 33.8396266520846 33.5714390140576
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##
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##
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##
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##
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##
          419 1151
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##
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##
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##
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##
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##
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##
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## 242 Levels: 11.6382431695813 11.8415243139411 ... 98.8038513283896
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##
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## [307,] 0.031930728 0.032173302 0.032953407
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```

```
tri20<- knn(train2, test2,cl=target_category1, k=20)
tri20</pre>
```

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##
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##
           419 1151
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                                                654 1164
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##
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##
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                                                                               668
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##
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                457 1033 1164
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##
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##
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##
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##
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           737 1162
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##
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##
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##
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##
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##
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                                           681 1203
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##
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                                     345 1037 1092 1074
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##
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                           716
                                493 1074
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           838
##
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                                583
                                     180 1074
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                                                      65
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                                                                  967
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            111 1203
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##
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##
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##
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    [29,] 1190 1074
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##
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##
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##
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##
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##
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##
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##
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##	[97,]	173	58	320	305	390	1157	335
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##	[138,]	277	181	405	229	446	796	329
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##	[148,]	156	1104	951	80	543	758	874
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##	[157,]	1232	934	874	642	623	175	860
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##	[159,]	62	888	1132	271	156	314	642
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##	[161,]	732	853	1066	84	1041	1051	1222
##	[162,]	1161	751	165	732	9	679	316
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##	[167,]	1041	353	753	220	125	812	231
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##	[170,]	1129	582	484	859	559	1149	852
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## [241,] 0.04951466 0.05922162
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## [243,] 0.04359441 0.04532165
## [244,] 0.10157454 0.10232238
## [245,] 0.04042922 0.04210685
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## [247,] 0.04097247 0.04213268
## [248,] 0.02369415 0.02458715
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## [251,] 0.04409617 0.04494322
## [252,] 0.02181760 0.02366925
## [253,] 0.03148634 0.03261720
## [254,] 0.02561432 0.02654729
## [255,] 0.02949340 0.02989202
## [256,] 0.03027249 0.03179154
## [257,] 0.02487394 0.02588042
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## [259,] 0.03657200 0.03746148
## [260,] 0.02850720 0.02987991
## [261,] 0.02748363 0.02897116
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## [263,] 0.04672150 0.04718760
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## [266,] 0.07011471 0.07066496
## [267,] 0.02056898 0.02108590
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## [269,] 0.04474926 0.04495460
## [270,] 0.04476188 0.04522278
## [271,] 0.03236150 0.03280207
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## [273,] 0.03242695 0.03370700
## [274,] 0.05375977 0.05587159
## [275,] 0.03214273 0.03221052
## [276,] 0.06409657 0.06413268
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## [278,] 0.03444147 0.03523199
## [279,] 0.04547607 0.04920585
## [280,] 0.07583022 0.07638174
## [281,] 0.03112111 0.03196258
## [282,] 0.03660652 0.03819869
## [283,] 0.05106031 0.05108306
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## [285,] 0.03871250 0.04032049
## [286,] 0.09330383 0.09446572
## [287,] 0.02844501 0.03023787
## [288,] 0.04571682 0.04585512
## [289,] 0.03219971 0.03346895
## [290,] 0.03537583 0.03562535
## [291,] 0.02700074 0.02799012
## [292,] 0.04064436 0.04721587
## [293,] 0.03517810 0.03584165
## [294,] 0.03185230 0.03231233
## [295,] 0.02553559 0.02654765
## [296,] 0.07730476 0.07869075
## [297,] 0.03229548 0.03405441
## [298,] 0.04622247 0.04705914
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## [300,] 0.03512767 0.03606767
## [301,] 0.03368854 0.03504613
## [302,] 0.02729478 0.02755623
## [303,] 0.03278674 0.03326276
## [304,] 0.03950705 0.04037537
## [305,] 0.02440114 0.02668710
## [306,] 0.03761195 0.03915906
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## [308,] 0.04332248 0.04718536
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## [311,] 0.05672187 0.05796764
## [312,] 0.06637475 0.06667473
## [313,] 0.04106295 0.04156770
## [314,] 0.05449672 0.05486630
## 206 Levels: 11.6382431695813 11.8415243139411 ... 97.7645407616702
tri25<- knn(train2, test2,cl=target_category1, k=25)</pre>
tri25
##
     [1] 41.232996587068 44.7915826139299 42.8364919125624 45.0328759122301
     [5] 42.7377608444448 43.7919258607276 47.7375174242204 43.7919258607276
     [9] 43.7919258607276 45.5045960242325 43.660010563542 33.7693051352592
##
##
    [13] 41.8896917292361 30.8177346493774 30.8177346493774 30.8177346493774
    [17] 34.4839370565386 33.3019700349431 33.1836257275989 32.5650007292488
   [21] 30.8177346493774 33.3019700349431 33.3032778415094 33.5714390140576
##
    [25] 33.5714390140576 32.5650007292488 30.8177346493774 32.5488177764013
##
    [29] 33.3019700349431 33.5714390140576 33.1836257275989 90.418433480603
##
    [33] 82.6742442375643 84.6337283723229 82.6742442375643 80.3575813232903
    [37] \ 72.2993786273707 \ 73.7554630776545 \ 72.095528384837 \ \ 74.7412245763958
    [41] 75.2903321030857 71.1222218389244 72.5398440896319 73.8867257269488
##
    [45] 87.1322284596602 93.0586565298844 87.5433392709512 92.3728569712435
    [49] 84.681354806255 89.3831691964022 93.4077074967855 58.6396880252212
##
    [53] 53.2967516828685 53.4961352906188 54.3465308706129 57.0763842325212
    [57] 48.6145888169703 57.6428115621762 59.2439042629941 57.0763842325212
##
    [61] \  \  \, 49.9105455250393 \  \  \, 45.778240374191 \quad 57.7178384635905 \  \  \, 54.5782281995556
    [65] 43.4677596756233 42.5315878048052 45.1083581670469 42.5315878048052
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[69] 43.2054339653476 43.225654788593 42.5315878048052 38.9426946535535

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[73] 35.7982476072395 32.9165904997253 30.8389234754042 34.0765937093431
    [77] 14.4958047486367 16.1825075167228 13.4805759175033 11.8415243139411
##
    [81] 16.2161167670548 11.6382431695813 13.978497180078 11.8415243139411
    [85] \ 13.023017551076 \ 14.428641541691 \ 11.8415243139411 \ 11.8415243139411
    [89] 11.8415243139411 16.2161167670548 11.8415243139411 11.8415243139411
##
    [93] 14.4958047486367 11.8415243139411 17.1458205452429 54.5221530479789
   [97] 52.1663782464574 55.6310604307694 46.4750588230673 51.8149485528634
## [101] 52.1355251798401 54.5221530479789 50.8843331014925 54.5221530479789
   [105] 56.1490282018942 40.1568427411013 40.1568427411013 40.1568427411013
   [109] 40.1568427411013 40.1568427411013 40.1568427411013 37.5862620225026
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## [121] 31.8717885646096 33.0136172192549 31.4910171419432 31.4910171419432
## [125] 31.8717885646096 32.0346647022778 31.4910171419432 33.0136172192549
## [129] 31.4910171419432 32.2554013265108 32.2554013265108 37.5862620225026
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  [141] 64.4515456862397 64.4515456862397 65.7774382915149 67.2687062598749
## [145] 66.5887382683312 66.0157406563968 68.546032010062 62.0255157711812
## [149] 62.4868415568431 62.0728201480514 66.4212487558749 66.0157406563968
## [153] 64.0850458438716 68.5684342613554 68.546032010062 66.8359855469976
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## [177] 83.1579838514005 78.8009462042004 83.3000571699543 79.8767085133875
## [181] 78.8009462042004 82.5104768024922 38.6235621915311 31.6097591346661
## [185] 29.6269449995417 42.7377608444448 33.7693051352592 31.6097591346661
## [189] 37.6645995193013 14.6387383336619 13.8504067473654 13.8504067473654
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  [197] 11.6382431695813 13.8738307904596 11.6382431695813 96.784031038394
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## [205] 96.8884432328552 96.784031038394 94.3273147486972 81.7265898339954
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## [225] 17.1458205452429 14.428641541691 13.023017551076 14.428641541691
## [229] 62.4868415568431 60.1991419131186 62.4868415568431 59.611240203124
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## [237] 59.611240203124 62.725526447176 62.8886944700866 63.3637653392642
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## [253] 44.2836575135307 51.4072884838112 49.4994707588014 50.0961609316422
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## [265] 33.3019700349431 36.6230440200744 34.0682358969689 33.3019700349431
## [269] 35.0246386178753 36.2245020104413 35.649595634606 34.7535710468385
## [273] 30.8177346493774 35.2595226316117 34.4195005866033 21.9496571860397
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## [281] 32.0196637972032 28.8975044647584 28.8975044647584 23.7299561071792
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##
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                                                                764
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##
                       457
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     [3,] 1033 1164
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##
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                                                   201
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                                                                             419
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##
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##
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##
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##
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##
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##
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##
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##
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    [13,] 1071
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##
                 387 1113
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    [14,] 1247 1092 1236
                             993
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##
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                                        243
                                                   197
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                             600 1074
                                        993 1190 1092 1037
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##
    ſ15.]
            737 1162
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##
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                 243 1236
                             993 1092
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                                                   681
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                                                                      1037
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##
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##
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                             493
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##
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                       103
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                                        851
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##
    [20,]
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                                  977
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                                              681 1203
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##
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                                        345 1037 1092 1074
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##
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                 565 1190
                             716
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                                       1074
                                              345
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##
    [23,]
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                           1042
                                   583
                                        180 1074
                                                   518
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                                                                       967
                                                                             493
                                                                                    681
##
    [24,]
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                                   549
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                                                   111
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                                                                977
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                                                                            1122
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    [25,]
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                                        624
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##
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                                                                138
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                                                        1236
##
    [26,]
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                             138
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                                                                851
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##
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    [27,] 1162
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##
    [28,]
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                                                                       967
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##
    [29,] 1190 1074
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##
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##
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    [31,]
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##
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##
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##
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##
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                                              703 1134
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            117
                                                                524
##
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##
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##
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##
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##
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    [42,] 1192
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##
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                                                   465
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                                                                       881
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##
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##
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                                                                             400
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##
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##
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##
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##	[88,]	450	877	1195	477	1213	1101	738	471	357	1135	377	99
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##	[90,]	589	685	741	357	877	771	292	971	862	171	1082	1155
##	[91,]	99	819	935	66	862	477	471	375	802	605	297	377
##	[92,]	99	651	171	685	477	66	377	864	605	297	589	826
##	[93,]	377	477	63	450	862	1008	819	537	452	589	962	1067
##	[94,]	99	1067	935	66	862	802	477	139	471	297	605	248
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##	[97,]	173	58	320	305	390	1157	335	762	626	463	1154	423
##	[98,]	528	762	785	444	360	598	939	48	810	1145	1154	1049
##	[99,]	1230	58	1049	688	360	576	4	173	423	365	650	1036
##	[100,]	413	1049	1145	31	360	48	810	527	762	423	4	126
##	[101,]	1145	173	810	527	1049	360	762	48	126	31	1230	688
##	[102,]	58	1230	688	48	281	360	1049	130	365	762	173	1004
##	[103,]	335	785	86	390	31	688	650	163	58	1154	320	762
##	[104,]	939	281	130	360	48	747	762	1004	1049	365	444	724
	[105,]	688	360	390	1230	795	305	281	335	58	163	365	320
	[106,]	462	1144	1201	227	645	1045	730	567	553	731	396	119
	[107,]	97	698	772	666	303	199	367	786	633	739	544	421
	[108,]	119	462	199	159	698	1144	1201	227	645	1045	730	553
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##	[111,]	731	698	199	1144	396	1045	645	227	1201	730	119	553
##	[112,]	766	1243	772	985	553	730	542	1045	645	227	1144	1201
##	[113,]	462	730	702	1045	553	40	29	766	763	985	226	639
##	[114,]	1045	985	462	367	303	739	666	544	772	786	421	633
##	[115,]	367	985	199	666	772	462	207	303	739	544	257	786
##	[116,]	1045	199	730	702	553	29	40	763	985	766	772	226
##	[117,]	985	766	633	226	421	739	772	639	544	97	666	702
##	[118,]	330	94	153	1202	1013	222	417	511	927	769	808	1182
##	[119,]	756	42	475	815	258	118	570	849	950	797	348	359
##	[120,]	958	94	1013	1202	417	511	927	153	222	1182	369	636
##	[121,]	1140	676	55	927	756	42	369	258	723	382	570	1182
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##	[247,]	441	964	849	269	157	532	478	775	1080	1014	566	883
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##	[249,]	525	843	219	323	644	472	32	25	1208	1120	418	1250
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- ## [240,] 0.06809979
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- ## [245,] 0.10813003 ## [245,] 0.05272176
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- ## [256,] 0.03474034 ## [257,] 0.03172193
- ## [258,] 0.04363298
- ## [259,] 0.04122844
- ## [260,] 0.03483382

- ## [261,] 0.03467662
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- ## [263,] 0.04998041
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- ## [267,] 0.02349113
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- ## [273,] 0.03722101
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- ## [295,] 0.02809048
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- ## [298,] 0.05182768
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- **##** [304,] 0.04534026
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- ## [308,] 0.05143711
- ## [309,] 0.06329278
- ## [310,] 0.05301342 ## [311,] 0.06628494
- ## [312,] 0.06928871
- ## [313,] 0.04935856
- ## [314,] 0.06110316

C. In later lessons, you will learn about linear classifiers. These algorithms work by defining a decision boundary that separates the different categories.

Looking back at the plots of the data, do you think a linear classifier would work well on these datasets?

I believe that linear classifiers would work for both the binary and trinary plots.

Looking at the data plotted it shows that there would be success using the linear classifiers.

Through my understanding these plots would work with a linear type model.